

Seattle City Council

Libraries, Utilities and Center Committee

2013 Water System Plan

September 18, 2012



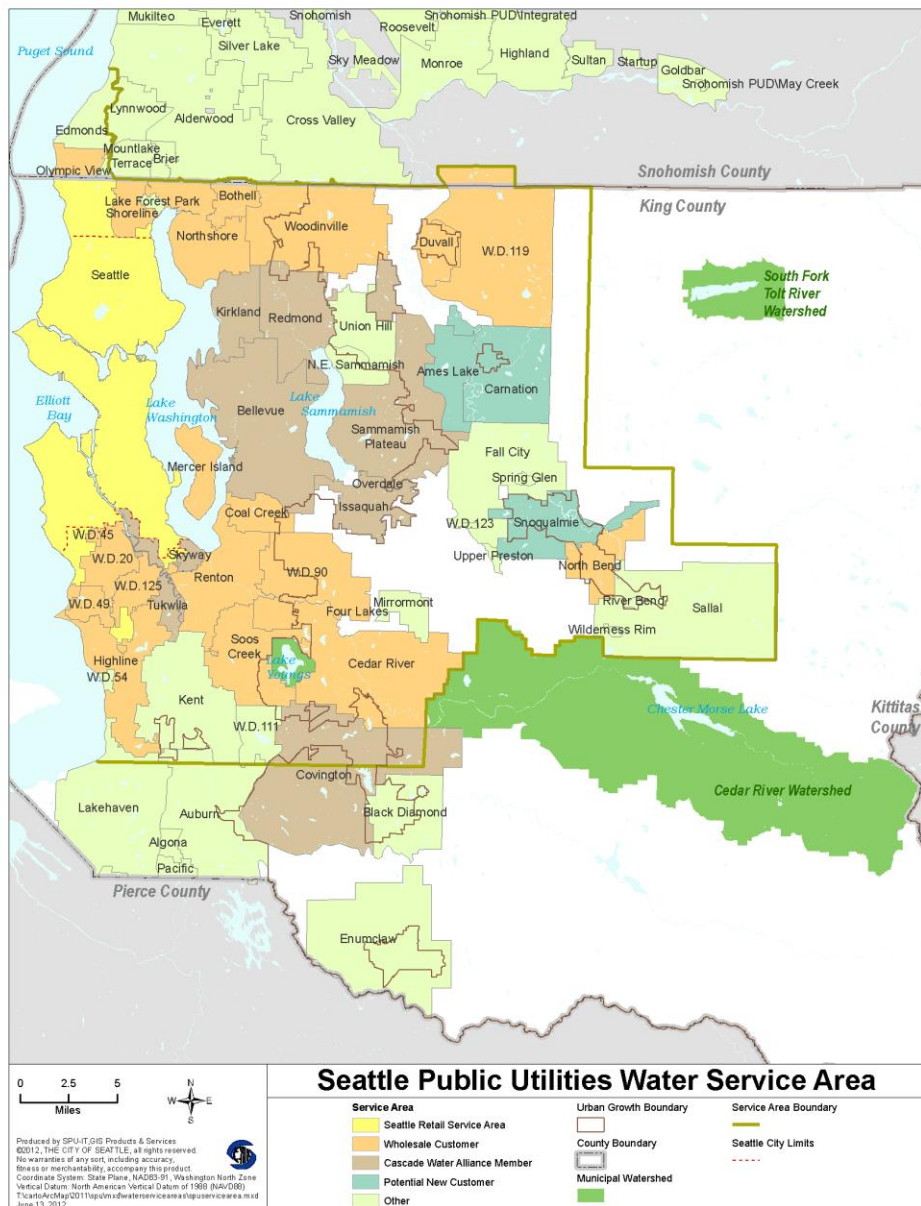
Water System Plans

- **Show how a water system is capable of meeting drinking water regulations.**
- **Assess current conditions and identify needs at least 20 years into future.**
- **Ensure consistency with Growth Management Act and local plans.**
- **Required by the State as condition for Operating Permit and low-interest loans.**
- **Required by King County for franchises and right-of-way permits.**



SPU's Water System Plan

- Retail and wholesale service areas
- Future water demand and supply outlook
- Water Use Efficiency Goal
- Infrastructure needs



Key Findings – Water Supply

- **SPU is now and will continue to provide high quality drinking water to the region.**
- **No new water supplies are needed before 2060, even with climate change.**



Chester Morse Lake on Cedar River

Key Findings – Conservation

- **Past conservation programs have been very successful.**
- **Since no new supply is needed in the foreseeable future, the conservation program's objectives have changed.**
- **2013-2018 Water Use Efficiency Goal will require continued reductions in per capita water use.**



Water Use Efficiency Goal 2013-2018



Reduce per capita water use from current levels so that total average annual retail water use of members of the Saving Water Partnership is less than 105 mgd from 2013 through 2018 despite forecasted population growth.

Key Findings – Investments

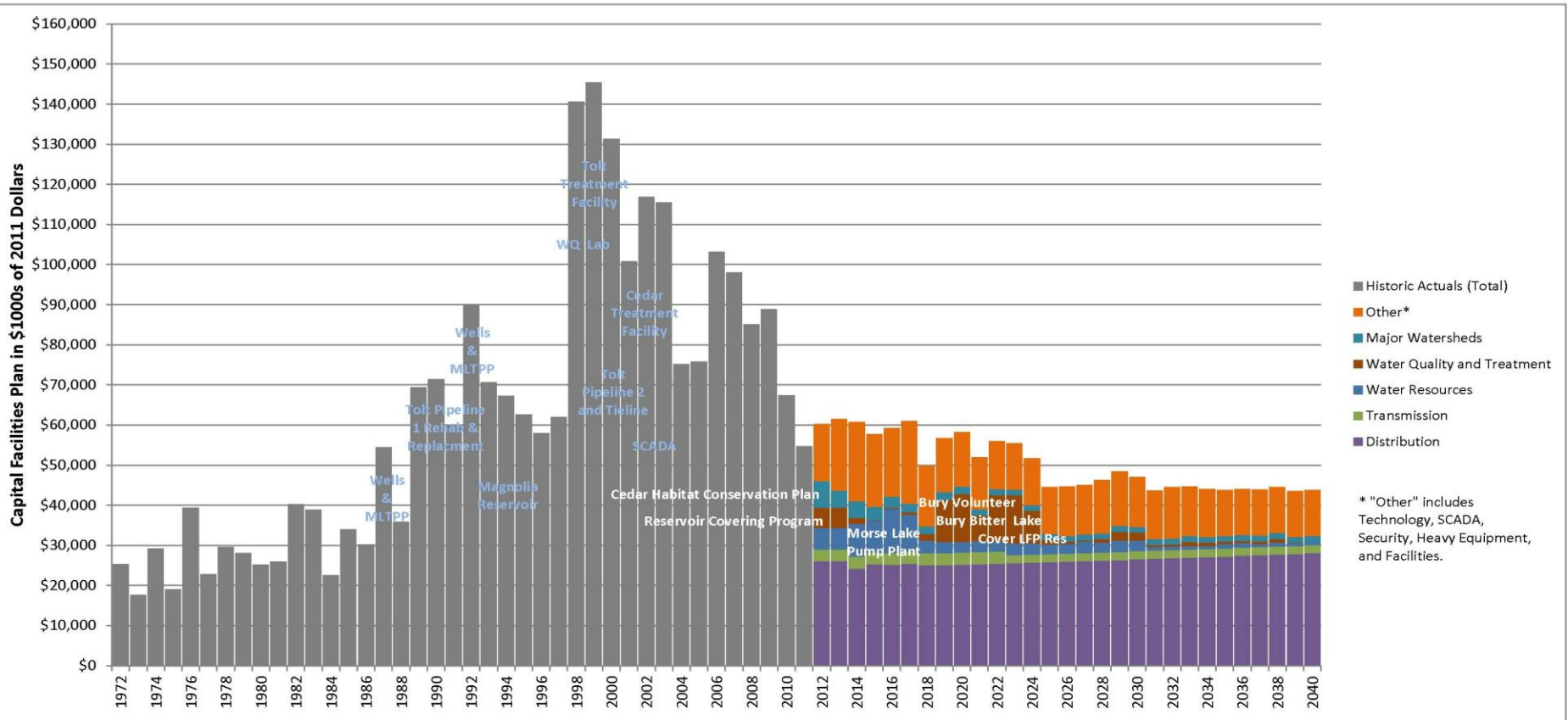
- **Generational investments in major capital projects are largely complete.**
- **Focus of future capital improvements will be in the distribution system.**



Tolt Water Treatment Facility

Past and Projected Capital Investments

Seattle Public Utilities Drinking Water LOB Capital Facilities History and Outlook 2011 Dollars



Water Distribution System

Network of smaller pipes that deliver water from transmission system to retail customers



Facilities:

- 1,684 miles of watermain
- 2 open and 6 covered storage reservoirs
- 16 pump stations
- 6 elevated tanks and standpipes
- 188,000 services/meters
- 18,920 fire hydrants
- 21,000 valves

Distribution System Needs

- **Asset Management Planning**
 - Watermains
 - Valves
 - Hydrants
 - Meters
 - Service connections
- **Watermain Condition Assessment**



- **Improvements to support:**
 - Fire flow
 - Seismic backbone
 - Redevelopment
 - Transportation projects

Water System Plan Review and Approval – To Date



WSAC Reviews and Discussion

Public Review Draft: April 2, 2012

SEPA/Determination of Non-Significance

Public Meeting: April 17

Public and Agency Comments

Water System Plan Review and Approval – Next Steps



**Seattle City Council Review and Adoption
by Ordinance**

King County Approval by Ordinance

**State Department of Health Review and
Approval: By April 2013**

2013 Water System Plan

Questions?

